# Safety Symbols



This symbol indicates there is dangerous voltages within the DVD Recorder, which gives a risk of electric shock if not handled correctly. To avoid the risk of electric shock, do not open the housing at any time.



This symbol identifies important operating and maintenance (servicing) instructions. Be sure to follow instructions identified with this symbol to avoid potential damage to your unit.

# Safety Precautions



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

# DO NOT STARE INTO LASER BEAM OR BLINDNESS MAY RESULT.

This DVD Recorder employs a laser system. To prevent direct exposure to laser beam, do not try to open the enclosure or defeat the interlocks. Use of controls, adjustments or the performance of procedures other than those specified may result herein hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.

# Other Precautions

- Do not put any objects in the tray other than approved video and audio discs.
- Do not open the unit, touch the inner parts or insert any foreign objects into the unit.
- Place the unit on a level, open surface. Do not locate the unit under direct sunshine, near heating devices or in very dusty or dirty places. Otherwise, the unit may be damaged.
- Hold the plug tight when connecting or disconnecting the AC power supply. Do not put any weight on AC cord or attempt to service the AC cord if it becomes damaged.
- Keep unit away from open windows or near any place where water may enter the unit.
- Do not stack heavy objects on the unit.
- Condensation may form in the unit when moving it from very cold to very warm or humid locations. In such cases, wait for the unit to come to room temperature and the condensation to evaporate before using the unit.

### 1.Read this Manual

After unpacking this product, read the manual carefully and follow all the operating instructions.



### 5.Heat

Position the unit away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat



### 2. Power Sources

This product should be operated only from the type of power source indicated on the unit. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.



# 6. Water and Moisture

Do not use this product near water such as near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool etc.



### 3. Grounding or Polarization

If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

grounding type plug, it will only fit into a grounding type power outlet. This is a safety feature. If you are Unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.



Unplug this product from the power outlet before cleaning. Use a damp cloth to clean the unit. Do not use liquid or aerosol cleaners.



# 8. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



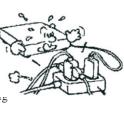
### 4. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure operation of the product and to protect it from overheating. Do not block or cover these openings.



### 9.Standby

The unit is still under power when in "standby" mode, so every time after usin our product, please pull out the power plus to make sure the power has been cut.



### 10.Lightning

Unplug the unit from the wall outlet during storms to prevent damage from lightning and power surges.



# 11. Objects and Liquids

Never push objects into this product as that could result in a fire or electric shock. Never spill liquids on the product.



### 17. Damage Requiring Service

Unplug the unit from the A/C outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power cord or plug is damaged.
- b) If liquid has been spilled into or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance.

### 12.Accessories

Do not use accessories not recommended by the product manufacturer as they may cause hazards.

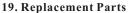


### 18. Servicing

Do not attempt to service this product yourself as this may expose you to dangerous voltage or other hazards and will void warranty. Refer all servicing to qualified service personnel.

### 13. Accessories

Do not place this product on an unstable platform. The product may fall, causing serious injury or serious damage to the product.



Be sure the service technician has used authorized replacement parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.



### 14.Disc Tray

Keep your fingers clear of the disc tray as it is closing. It may cause serious personal injury.



### 20.Safety Check

Upon completion of any service or repairs, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

### 15.Burden

Do not place heavy objects on the product. The object may fall causing serious personal injury and serious damage to the product.



### 21.Splashing

The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

### 16.Discs

Do not use a cracked, deformed or repaired discs. These discs are easily broken and may cause serious personal injury and product malfunction.



### 22.Battery Usage

Battery leakage may result in bodily injury or damage to the unit. In order to avoid battery problems, please follow These instructions.

Install all batteries correctly, with+and-aligned as marked on the unit.

Do not mix batteries(old/new,carbon/alkaline, etc.). Remove batteries when the unit is not used for a long time.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



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CE: The DVD recorder is in conformity with the EMC directive and low-voltage directive.

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SPECIFICATION

# INTRODUCTION

# DVD±R/RW Recorder and Progressive Scan Player



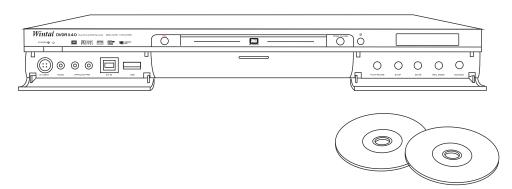














The DVDRX40 is a multi-format DVD recorder and player. The unit gives you the ability to create your own DVD discs from your home movies, favorite TV programs and more. When you're ready to watch your recordings or commercial DVD's, you can enjoy them in the highest quality using the unit's progressive scan video and digital audio outputs. (Where compatible)

# DVD±R/RW Recorder

- Record from your TV, camcorder, VCR, DVD.
- Live, timer and scheduled recording functions.
- Multiple recording modes, HQ, SP, EP, SLP.
- Up to 6 hours recording on one DVD±R/RW Disc.
- On-Screen disc title navigator gives you quick and easy access to your recordings.
- Built-In TV tuner, front and rear AV inputs.
- Editing features like: Add, Delete or hide chapters.
- Your recordings are playable on most DVD players.(once finalised)

# Progressive Scan DVD±R/RW

- Progressive scan video with 3:2 pull down playback DVD+R, DVD+RW, DVD-R, DVD-RW, DVD, VCD, CD-R, CD-RW,SVCD,MP3,JPEG,HDCD, Kodak Picture CD,MPEG4.
- Component Video, S-Video and Composite video outputs.
- 96 kHz / 24 bit D/A converter.
- Stereo and 5.1CH audio outputs, optical and coaxial digital outputs.
- Advanced playback functions: Slow playback, repeat playback, parental control, MP3 format, JPEG screen saver, zoom In/Out, track selection, on-screen display and more.

# INTRODUCTION

# Optical disc compatibility

This unit is compatible with a wide range of available optical discs for recording and playback.

# Discs suitable for Recording and Playback

You must use DVD $\pm R$  or DVD $\pm RW$  discs to record on this unit.

**DVD ±R:** These discs can only be written to once. Existing recordings can be hidden but not deleted. Any disc space already used by a recording cannot be reclaimed. DVD±R discs are required to be "Finalised" before use with other DVD players. Once a disc is finalised, no further recordings can be made.

**DVD+RW:** These discs are erasable and can be rewritten to multiple times. Existing recordings can be deleted and disc space regained. These discs do not require a finalisation procedure, so will always work with other DVD players. As soon as a recording is made, the disc will be compatible with standard DVD Players.

**DVD-RW:** These discs are erasable and can be rewritten to multiple times. Any disc space already used by a recording can be reclaimed. The discs are required to be "Finalized" before they will be compatible with standard DVD player.





### Discs suitable for Playback

This unit is coded for region 4, and is only compatible with discs marked accordingly.



**DVD±R/RW:** These discs can be played back when recorded in standard DVD video format.





**CD-AUDIO:** An on-screen navigator is provided to select and play tracks when using CD-Audio discs.



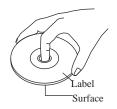
**CD-R/RW:** This unit features an on-screen navigator for easy access to playable files stored on CD-R/RW discs, such as JPG images and MP3 music.

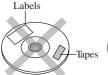




# **Caring for Optical Discs**

- 1. Hold a disc by the rim or with an index finger in the central hole. Never touch the signal surface.
- 2. Finger prints or stains on the surface of the disc may cause signal loss.
- Use a soft cloth and wipe in a radiating manner from the center of the disc to the outer rims when cleaning the disc surface.
- 4. Never add labels or adhesive tapes on the discs be careful not to scratch or damage the disc surface, these products may damage the disc surface.
- 5. To prevent damage, avoid leaving discs in your car, where they may be subject to direct sunlight and high temperature.
- 6. Do not use any disc accessories to improve the audio quality, disc protective solutions or lens cleaner.







# INTRODUCTION

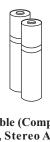
# Please make sure the package contents are complete

In addition to the DVD recorder, your package contains the following accessories.

### Remote control



### Batteries(AAA)



A/V cable (Composite Video, Stereo Audio)



### Manual



# Installing batteries in the remote control

This unit comes complete with batteries for the remote control. When installing batteries, be sure to take note of the polarity markings on the inside of the battery compartment and match them up with those on the batteries.

- 1 Slide off the back cover
- Install the batteries in the compartment.

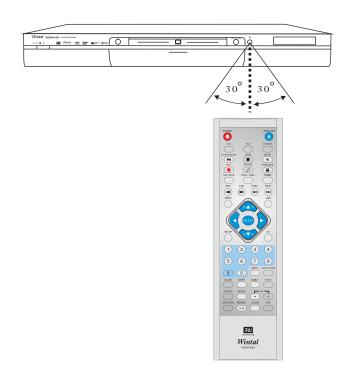
# Diff.

### Notes on batteries

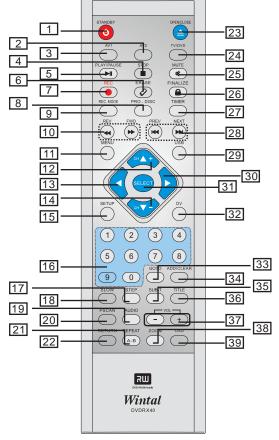
- 1. If the remote control does not function unless very close to the unit (<2m), the batteries may be running low.
- 2. In case of leakage, dispose the batteries immediately. Avoid touching the chemical discharge. Make sure to clean the remote control's battery compartment before installing new batteries.
- 3. Do not mix batteries of different types, or use old batteries.

# Operating the remote control

When using the remote control, be sure to stay roughly within a 30 degree angle of the sensor on the receiver. Keep in mind that any obstructions between the remote control and the receiver will affect performance.



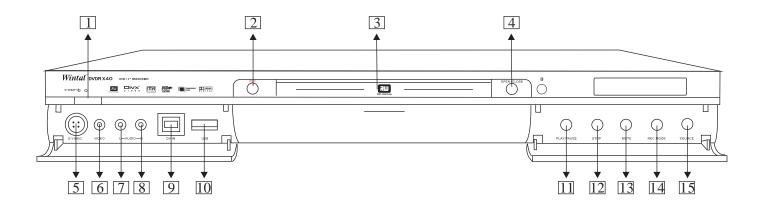
# Remote Control



- **1.STANDBY -** Turn the unit on / set the unit to Standby mode.
- **2.AV2-** Select sources from front inputs: Front CVBS in, S-VIDEO in.
- **3.AV1-** Select input source to Rear CVBS in.
- **4.STOP** Press once to stop playback and hold the playback position in memory. Playback can be resumed where it left off by pressing PLAY. Press twice to clear the playback position.
- 5.PLAY /PAUSE Play a disc, chapter or track. Press again during playback to pause.
- **6.ERASE-**Press to erase contents of the DVD±RW disc.
- **7.REC** Press to begin live recording.
- **8.PRO.DISC-**Press once to protect a recorded DVD±RW disc Press twice to unprotect.
- **9. REC. MODE -** Select the Recording quality mode: HQ, SP, EP, SLP.
- 10.REV/FWD Scan in fast reverse or forward.
- 11. MENU Access DVD menu.
- 12/14. (CH+/-)/ UP/DOWN -Select a channel in RF IN mode or to select a menu item.
- 13/30.LEFT/RIGHT Select a menu item.
- **15. SETUP -** Access the on-screen Setup Menu for settings adjustment.
- 16.NUMBER KEYS Enter numeric values while setting options.17.STEP-Step by step playback.
- 18.SLOW Slow motion playback mode in 1/2, 1/4, 1/8 or 1/16 speed. Press PLAY to resume normal playback.
- 19. AUDIO Select an audio track on DVD or other discs.
- **20.PSCAN-** Set the video output format to progressive scan or Interlaced.
- **21.REPEAT-** Select to repeat A-B, chapter, title or disc.
- **22.RÉTURN-** Resume playback for DVD discs or other discs.
- **23.OPEN / CLOSE -** Open /Close the disc tray.
- **24.TV/DVD-**Switch between RF IN and DVD mode.

- **25.MUTE** Temporarily silence audio playback.
- **26. FINALIZE-**Press to finalize the DVD±R/DVD-RW disc.
- 27. TIMER Access the timer menu for scheduled recording setup.
- **28.PRÉV/NEXT-** Advance to the next track or play previous track on DVD or other disc.
- 29.USB-Press to select playing the picture or music in stored, if an USB is inserted.
- 31.SELECT Select option in menus.
- **32.DV-** Select DV IN as input source.
- 33.GOTO -jump to desired time / chapter of the disc to play.
- **34.ADD/CLEAR-**Use to delete characters when entering words / adjust playback order.
- **35.SUB-T-**.Turn on subtitles (where available)
- **36.TITLE-**Access the title screen on DVDs.
- **37.VOL(-/+)-**Use to increase or decrease volume.
- **38.ZOOM** Press to magnify the on screen image.
- **39.OSD** Bring up the on-screen display showing information for the playback section.

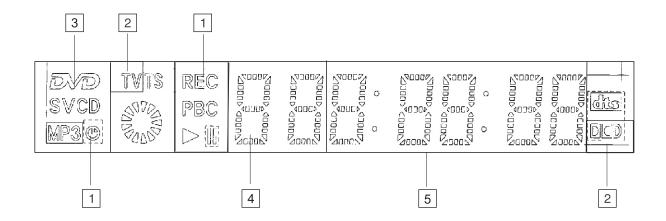
# Front Panel



- **1.STANDBY -** Turn the unit on / switches the unit to standby mode. In standby mode, the unit will use a minute amount of power to enable power-on from the remote control.
- **2. REC-** Begin recording the source to disc.
- **3. DISC TRAY-** Load DVD±R/RW, DVD, CD, SVCD, MP3 optical discs.
- **4.OPEN/CLOSE** Press to open or close the disc tray.
- **5.S-VIDEO INPUT-** S-VIDEO input for recording, To select this input, use the SOURCE button and choose Front S-Video in.
- **6. VIDEO INPUT -** Composite video input for recording. To select this input, use the SOURCE button and choose Front CVBS.
- **7/8. STEREO AUDIO INPUTS**-Use with Front video inputs for recording.
- **9. DV IN -** The i-link DV input Jack. Connect a DV source or digital camcorder for recording, To select this input. Use the SOURCE button and select DV IN.
- **10.USB-** insert USB device here for playback of mp3 or jpg files.

- **11. PLAY/PAUSE -** Begin playback of a disc, chapter or track. Press again during playback to pause and again to resume playback.
- **12. STOP -** Press once to stop playback and hold the playback position in memory. Playback can be resumed where it left off by pressing PLAY. Press twice to clear the playback position.
- **13.MUTE-** Temporarily silence audio playback.
- **14.REC.MODE-** Select the recording quality mode HQ, SP, EP, SLP.
- **15.SOURCE-** Use to select input source.

# Front Display



# 1. FUNCTION INDICATORS

Indicates the status of advanced disc playback functions:

**REC** Recording indicator.

PBC PBC (Playback Control) Function is enabled. ►II These indicators show playback status of a disc: Playing / Paused.

Indicates timer recording active.

### 2. PROCESSOR INDICATORS

These indicators display the status of the surround sound processors and type of sound track currently active.

**CHANNEL** current TV channel indicator **DOLBY** indicates when the Dolby Digital or DTS processors are active.

**TV**. Indicates when in TV mode.

### 3. DISC TYPE INDICATORS

Displays the type of optical disc inserted - DVD, SVCD, CDDA (Music CD), or MP3.

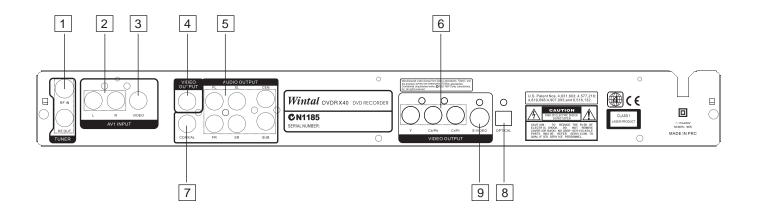
# 4.TITLE/CHAPTER/TRACK INDICATOR

Displays the number of the current title, chapter and track on the disc.

# **5.MULTI-FUNCTION DISPLAY**

When playing a disc, displays the elapsed time of the playback session or track. Also displays disc tray status, system messages and more. When the unit is in Standby Mode, displays the system clock.

# **Back Panel**



- RF IN / OUT Antenna input and Pass-Through output. The Pass-Through output does not include signal from the DVDR-X40
- **2.STEREO AUDIO INPUTS-** the sound component of the AV1 input.
- **3.VIDEO INPUT-** Composite video input for recording. To select this input, use the SOURCE button and choose Rear CVBS
- **4.COMPOSITE VIDEO OUTPUT-**Standard video output that is supported by most TVs.
- 5. 5.1CH AUDIO OUTPUT Connect to TV or other audio equipment supporting 2CH / 5.1CH audio in.
- **6.COMPONENT/PROGRESSIVE SCAN VIDEO OUTPUT-**Use this output with TVs supporting component video or progressive scan input for the best video quality. Select this output in the DVD recorders SETUP MENU.
- **7. COAXIAL DIGITAL AUDIO OUTPUT -** Use a coaxial digital audio lead to send high quality, multi-channel digital audio to devices supporting digital decoding.
- **8.OPTICAL DIGITAL AUDIO OUTPUT-**Use an optical digital audio lead to send high quality, multi-channel digital audio to devices supporting digital decoding.
- **9.S-VIDEO OUTPUT-**Connect to TV with S-VIDEO in for better picture quality than standard composite video.

# Connecting the video output to your TV

In order to use the DVD recorder, you need to make both an audio and video connection to your TV. The capabilities of your TV and the cables you have on hand will determine the connections you can use. There are 3 possible video connection types:

- Composite Video The most widely used, but lowest quality connection. This unit includes an Audio/Video (A/V) cable for Composite Video.
- S-Video A higher quality connection that requires an S-Video lead (not included) and an S-Video capable TV.
- Component Video The highest quality video connection. Supported on high-end TVs and requires a component lead (not included).

# Composite Video (Typical connection)

This unit ships with a composite video (A/V) cable for connection to TV with a standard video input as shown below. This is the most widely used type of connection. On most TV's, this connector is colored yellow, and is normally accompanied by stereo audio inputs, colored red and white for stereo channels right and left respectively.

First, use the supplied A/V cable to connect the composite video input on your TV to the video output port on the DVDR-X40. Composite video connections are normally a yellow-colored connector that matches the video output on the back of this unit. If you wish to hear sound through the TV, connect the red and white stereo audio connections as well.

Composite Video Input Jack

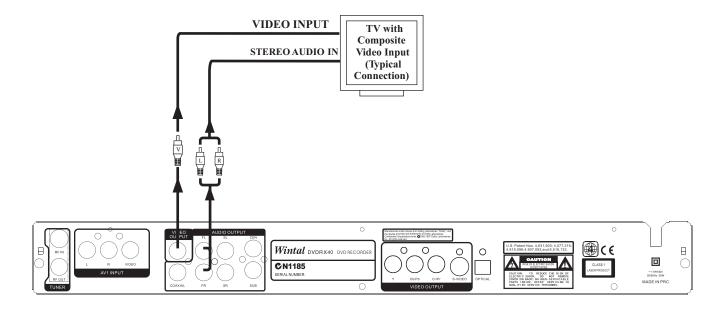


Turn on the TV and DVD recorder and select the DVD playback mode with the remote control.

On your TV, select the video input. This is normally done by Selecting Video 1 or Video Input with the remote control. On some TV's, this is done by selecting a particular channel.

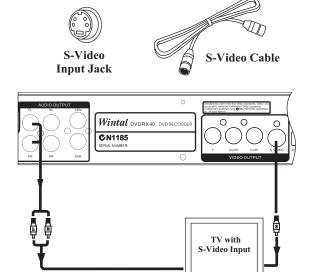
For more information, pls consult your television manual.

Note: The composite video input may be called AV1, AV2 or VIDEO IN. Ensure that you connect the audio leads into the same input group, Eq: Av2 Audio L/R



# S-Video Connection

This is a higher quality connection than standard composite video, and requires an S-Video cable (not included). The S-Video connector is distinguishable by its 4 pins, as shown below. If your TV has an S-Video input jack, it's recommended that you use this type of connection for better picture quality.



- Connect an S-Video lead to the S-Video output on the unit to the corresponding input on your TV.
  Connect the audio output of the unit to the corresponding audio input of the television.
- Turn on the unit and select DVD mode.
- On your TV, select the S-Video input. This is normally done by selecting S-VIDEO with the remote control. On some TV S this is done by selecting a particular channel.

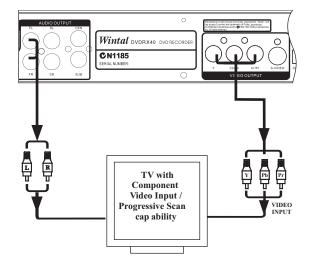
  For more information, pls consult your television manual.

Note: The S-Video input port on your television may be called SVHS, AV2 or S-Video in, etc.. Ensure that you connect the audio leads into the same input group. Eg: SVHS Audio In L/R

# **Component Video Connection**

The highest quality video connection, component video uses separate cables for the Y(green), Cb/Pb (blue) and Cr/Pr (red) video signals. To use the progressive scan option on this unit, you must use the component video output and connect to the YPbPr input on your television. Connect the component video output requires these steps:

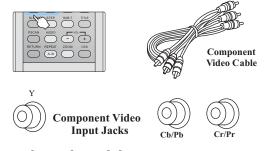
- First, use a component video cable to connect to the component video input on your TV from the device.
- 2 Turn on the unit and select DVD mode.
- On your television, select the YCbCr or YPbPr input, according to the input you used. For more information, consult your TV manual.



# Progressive scan mode

Progressive scan outputs a higher resolution image to compatible televisions, giving you higher picture quality. To enable this, complete the following step.

To change the TV OUT MODE to the progressive scan, press the PSCAN, then SELECT key. Make sure the TV is set to the correct video input.



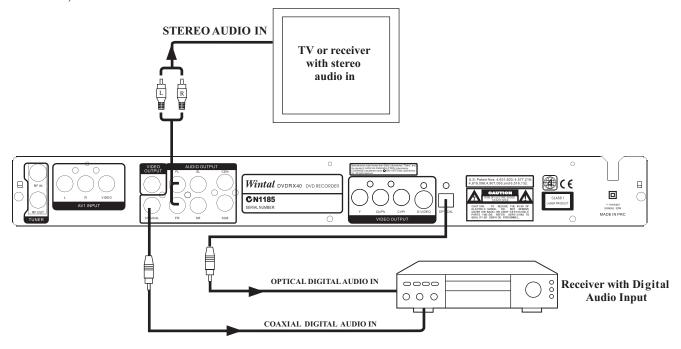
# Resetting the video output

If you inadvertently switch the OUTPUT FORMAT setting to PROGRESSIVE while using a standard TV not capable of PSCAN, you will lose video. If this happens, reset the recorder to its default video settings by pressing PSCAN, then SELECT on the remote control.

# **Audio Output Connections**

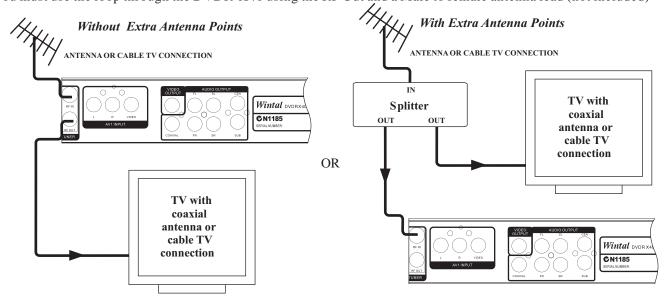
This unit features a variety of audio outputs for connection to a receiver or other audio equipment.

- Use the included A/V cable to connect the stereo audio outputs for connection to a TV or stereo receiver.
- Optical and Coaxial digital audio outputs send multi-channel digital audio, suitable for receivers with Dolby decoding capability. These outputs specific cables, Optical (Also called SP/DIF) and coaxial digital (not included).



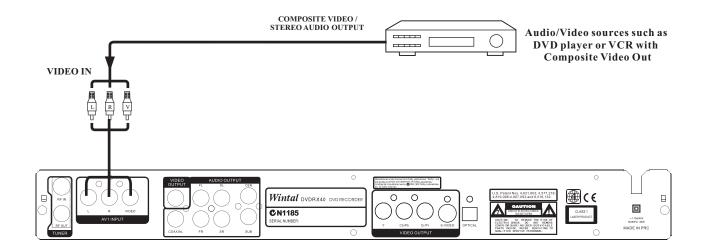
# **Antenna & TV Connections**

A connection to an antenna is required if you wish to record TV shows using the in-built tuner. If you have multiple antenna (RF) points, you may connect the DVDR-X40 directly to the point, however, if you only have the one point, you must use the loop through the DVDR-X40 using the RF Out and a Male to female antenna lead (not included)

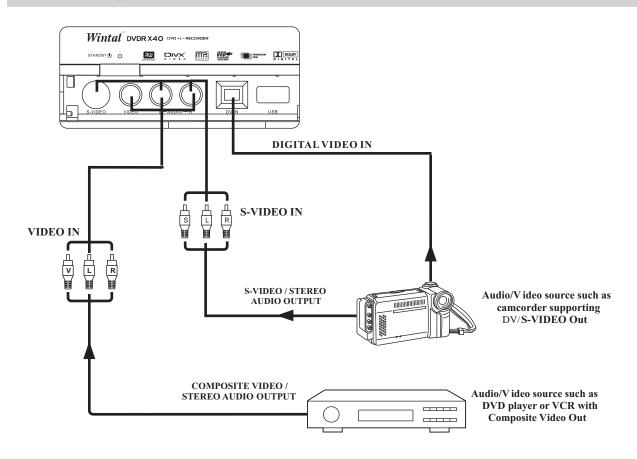


# Connecting Audio/Video recording sources to the A/V Inputs

Audio/Video (A/V) inputs are provided on the front and back of the unit for connection of external A/V sources such as VCRs, camcorders, DVD players, etc. This unit supports external video sources with S-Video, Composite Video and/or Stereo Audio connections.

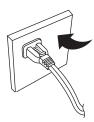


# VIDEO IN, S-VIDEO IN and DV INPUT

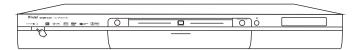


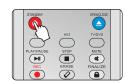
# Powering on the unit

Only after all connections are complete, connect the power cord and power on the unit.



- Plug the power lead into a wall socket or power strip.
- Press STANDBY on the remote control or front panel to turn the unit on. The system is now ready to use.





# Notes on power states

There are 3 power states for this unit:

- OFF not connected to the power cord. The unit draws no power and cannot be turned on by the remote control.
- **2. STANDBY** The unit draws a slight amount of power to run the remote control receiving circuit.
- **3. ON** the standby button on the remote control or the standby button on the front panel has been pressed. The unit is ready to use.

# Initial Setup Procedure

# Using the Menus

When the unit is first powered on, you'll be prompted to set the time and date as well as set TV Tuner options. You can always change any of the settings you chosen during the initial setup later in the DVD recorder's SETUP MENU.



- Use the UP/DOWN keys to increase or decrease the value of a selected field or move to a field above or below. Use the LEFT/RIGHT keys to move to the previous or next fields.
- 2 Press SELECT to select an option and continue.

# Time and Date

Setting the time and date correctly is important, as timer recordings depend on an accurate setting. The time format used is 24H. Use the **UP/DOWN** keys to increase or decrease the time or date and the **LEFT/RIGHT** keys to move to a different field. When you are done, press SELECT key.





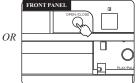
The initial setup is now complete. Remember, any settings chosen during the initial setup can be changed at any time in the DVD recorder's SETUP MENU. Press SETUP to exit the initial setup and begin using your DVD recorder.

# Inserting a Disc

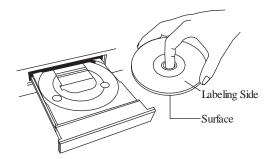
1

Press the OPEN/CLOSE button on the remote control or front panel to open the disc tray.





2 Insert a disc.



Close the disc tray by pressing OPEN / CLOSE on the remote control or front panel. Watch your fingers!

# **Using Disc Menus**

# Playing a Disc from the Menu

Most DVDs will automatically display a menu after the disc is inserted. This is the disc menu of the DVD, which is different for each disc.

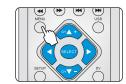
Use the ARROW keys on the remote control to navigate through the disc menus different options. In this case, select 'Play disc'

2 Press SELECT to confirm your selection.

# Accessing a menu after play has started



If you wish to bring up the disc menu during play , press the MENU key. MENU also exits the menu at any time.



# Basic Disc Playback

# Starting, Pausing and Stopping Disc Play

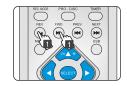


# PLAY - To begin playback of a disc, press PLAY/PAUSE.

- PAUSE To freeze the video on a single frame, press the PLAY/PAUSE key during playback. To resume normal playback, press PLAY/PAUSE again.
- 3 STOP To stop playback of a disc, press STOP.
  Pressing stop once will hold the playback position in memory. You can begin playback where you left off by pressing PLAY. If STOP is pressed twice, the playback location is reset to the beginning of the disc.

# Fast Forward and Fast Reverse

You can scan through discs in fast forward or reverse at speeds up to 32 times faster than normal playback. Fast forward/reverse scanning will only work during disc playback, not when the disc is stopped.



To use the fast forward/reverse function with the remote control, press the REV or FWD key repeatedly to cycle through all speeds in the desired direction. Available speeds are 2X, 4X, 16X, and 32X. To resume normal playback, press the PLAY key.

# Skipping to the Next or Previous Chapter/Track

You can advance or skip back through the chapters or tracks on DVD discs, audio CDs and other discs with the NEXT and PREV buttons on the remote control or front panel.



- 1 SKIP PREVIOUS Press the PREV button on the remote control or front panel to skip back to the previous track.
- 2 SKIP NEXT To advance to the next chapter or track, press the NEXT button on the remote control or front panel.

# Frame advance

- 1 Press PAUSE during normal playback.
- 2 One frame is advanced each time you press STEP.
- 3 Press PLAY to resume normal play.

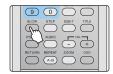




# Advanced Playback

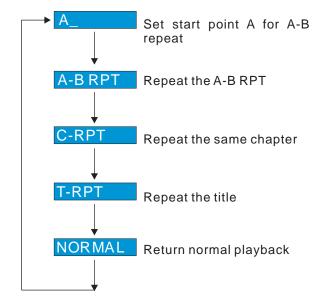
# Slow Motion Playback

This unit supports slow motion playback to 1/16 normal speed.



1

Press the SLOW button repeatedly to step through all options for slow playback. you can choose 1/2,1/4, 1/8or1/16 speed.

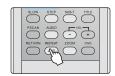


# Repeating A-B, Title, Chapter, or Track

Press REPEAT to choose between A-B, Chapter, Title or Track repeat modes. Press it once to set the A point for A-B repeat. The second press sets the B point for A-B repeat. The third press activates Chapter repeat. The Fourth press activates Title repeat and the fifth returns to normal playback.

Note:

Title and Chapter repeat are only available on DVD discs



1

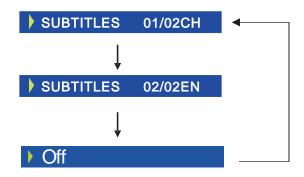
Press the REPEAT button during playback. Each time you press repeat button the repeat mode will change.

# Muting the sound

1

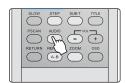
Press the MUTE button on the remote control to temporarily silence the audio signal at any time. Press MUTE again to resume normal audio.





# Changing the audio track

Most discs are recorded with multiple audio tracks. These audio tracks may contain different languages, commentaries or different audio streams such as multichannel Dolby Digital signals.



1

During playback, press the AUDIO button to cycle though available audio tracks.

### **Subtitles**

Most DVD discs include at least one subtitle track. Subtitles are useful to viewing movies in a foreign language or for hearing-impaired viewers. Press the SUB-T button during playback to cycle through available subtitles on the disc, or turn the subtitle off.



# Viewing JPEG Files

# Slide Shows

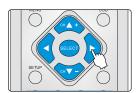
You can view JPEG picture files stored on CD-R/RW discs individually or in slide show mode on your TV. JPEG is the standard format for pictures stored in digital cameras, the internet and many other applications. When you insert a disc with JPEG files, a slide show will automatically begin.

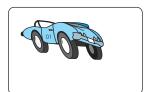
# Rotating and Flipping JPEG Images

While a JPEG is displayed, you can rotate the image or flip it horizontally or vertically.

1

To rotate an image in the clockwise direction, press the RIGHT arrow key.

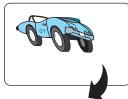






To flip the image horizontally, press the UP arrow key.







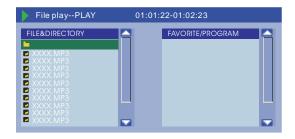
# JPEG notes

- JPEG files must be stored on discs with the extension "JPG", such as "Picture. JPG", otherwise the files may not be recognized.
- 2. You can have a maximum of 250 files or folders.
- 3. CD-R/RW discs containing JPEG files should be in ISO/9660, mode 1, closed section format for best compatibility.

# Playing MP3 Files

# The MP3 Player

When you insert a disc containing MP3 files, the player will launch the MP3 player (an on-screen interface for playing MP3 music files).



- . **TRACK LIST** A list of the tracks and folders on the disc.
- . **CURRENT FILE** The current file being played.
- . **PLAYBACK INFO** Displays current track number, total tracks on the disc and elapsed playback time.





1

Use the UP/DOWN arrow keys to select a file to play. Alternatively, you can jump to a file directly by using the NUMBER keys, select the file number, then pressing SELECT.

### MP3 notes

- MP3 files must be stored on discs with the extension ".MP3", such as "song1.MP3", otherwise the files will not be recognized.
- You can have a maximum of 250 files or folders.
- CD-R/RW discs containing MP3 files should be in ISO/9660, mode 1, closed section format for best compatibility.

# Introduction to recording

You already know that DVD discs provides a very high quality video playback. Now, with DVD±R/RW recording, you can create your own DVDs from your home movies, favorite TV shows or virtually any other video source.

Recording to DVD $\pm$ R/RW is easy. The process is similar in many ways to your old VCR, but with many new enhancements. You can record live by simply pressing one button, or set the timer for scheduled recordings. And DVD $\pm$ RW discs can be erased and used over and over again more than one thousand times and still look crystal clear.

There's lots of new editing features with DVD $\pm$ R/RW that give your recordings a flexibility that you never had with VHS. The title screen gives you quick access to your recordings with thumbnail images you can change. You can quickly add or delete titles or chapters.

# Discs you can Record To

This unit will accept four disc types for recording: DVD±RW and DVD±R.



DVD $\pm R$  discs are "Recordable" discs that cannot be erased. Once a recording is made to a DVD $\pm R$  disc, the disc space used by that recording can not be reclaimed, although the recording itself can be "hidden" so it is not viewable when the disc is played.

DVD±R discs must be finalized before they can be played back on standard DVD player. Once this process is complete, no more recordings can be added. This is an important difference between DVD±R and DVD±RW discs. While the TOC (Table of Contents) can be written to and updated many times on a DVD±RW disc, the TOC on a DVD±R disc can only be written once. Therefore, you cannot move a DVD±R between the recorder and a DVD player as you add recordings to the disc. Instead, you must complete the disc before it is playable on a standard DVD player.

Although DVD±R offers less recording flexibility than DVD±RW, the lower cost per disc and the fact that the material cannot be erased or edited make it the best choice for large distributions of recordings to friends or clients.

Although DVD±RW discs are more expensive than DVD±Rs, they can actually be more economical and convenient for certain situations. For example, if you are recording TV programs you may want to "recycle" discs - recording over episodes you have already watched. In this situation, DVD±RW discs are the best choice because a single disc can be used over and over again - there's fewer discs to buy and keep track of.



Think of DVD±RW (DVD+ReWritable) discs as the digital equivalent of your old VHS tapes. Like video tape, DVD±RW discs can be recorded to, erased and re-used. But unlike video tape, DVD±RW discs will retain their crystal-clear digital quality even after being erased and re-recorded over 1000 times! This superior quality will not be degraded with the passage of time like VHS tapes.

Also, unlike DVD+R discs, DVD+RW discs do not require a "Finalization" process for compatibility with standard DVD player. To understand why this is so, consider the following: In order for your recordings to be compatible with standard DVD player, a TOC (Table of Contents) must be written to each disc. Since DVD±RW discs are ReWritable, the TOC can be constantly updated as new recordings are made. This means that a DVD±RW disc can be played on a standard DVD player directly after the first recording, and will remain compatible as new material is added later.

# What you can Record From

You can record your own DVD from the following sources:

**Inbuilt TV Tuner** - This unit features a built-in TV Tuner that can be connected to cable TV or a standard antenna to record your favorite TV shows. You can auto-scan for available channels.

AV Inputs (Composite/S-Video) - Use the Audio/Video inputs to record from devices such as your camcorder and VCR. You can also connect external TV tuners, DVD player, etc. to the A/V inputs - basically any video device that has a S-Video or composite video output,

**DV Input/1394** - Use the digital firewire output from your camera to receive, without loss of signal quality, your digital home videos.

# About Copy Protection

You cannot record from a video source that is encoded with Macrovision copy-protection, such as most DVD produced by major studios. As an example, if you have a DVD recorder connected to an AV input and attempt to record a DVD, an error message will occur, letting you know that the disc is copy-protected.

# **Setting Recording Options**

There are several recording options and other settings that should be understood and checked before you begin recording.

# Setting the Record Quality

The record quality determines the quality of your recordings as well as the maximum amount of video you can record on a disc. The higher the quality, the less video recording time can be recorded.



Press SETUP to enter to system setup and use UP/DOWN to move to the record icon. Then move to default quality and press SELECT to confirm.



HQ: High quality. About 60 minutes SP: Standard play quality. About 120minutes EP: Extended play quality. About 240minutes SLP: Super long play. About 360minutes

NOTE: Recording time is an approximately value.

2 You can set the record quality in the SETUP MENU.



# Setting the Auto Chapter Option

You can set the recorder to automatically add a "chapter marker" every 5 minutes during your recordings. During playback, this will allow you to skip forward or back in 5 minutes intervals by using the NEXT/PREV keys on the remote control. These chapter markers are compatible with most standard DVD players as well.

Press SETUP to access the setup menu. Move to RECORD icon.



Press RIGHT to highlight the icon and press SELECT. And UP/DOWN to select the ON/OFF.



# Checking the Time and Date

Before you begin recording, you should make sure the time and date are both correct. The time and date are used not only to schedule recordings, but also to automatically label recordings that you make. Setting the time and date correctly is important, as the timer recordings depend on an accurate setting. The time format used is 24Hr.

During stop status, press SETUP to access the SETUP menu. Use arrow keys to hightlight the clock icon, then move to the date and time.



2

Highlight Date (mm/dd/yy), press SELECT and input the local date using the NUMBER KEY, press SELECT again to confirm.



3

Highlight time (hh:mm:ss), press SELECT and input the local time by NUMBER KEY press SELECT again to confirm it.



Press RETURN to exit edit mode, Press UP/DOWN or 0~9 to edit.

# The Title Screen

When you insert a DVD±RW or DVD±R disc, the title screen will appear. The title screen displays thumbnail images and information for each title (recording) on the disc.



**1. THUMBNAIL IMAGE** - An image taken from the first frame of the recording, the thumbnail image provides a visual cue to help you identify the titles on the disc.



1	1.TITLE
2	01/01/00
3	<del>12:03:47</del>
4	SP 00:00:20
5	

- 1. The name of the pre-recorded. The default is TITLE.
- 2. The date of the record. 3. The time of the record.
- 4. The quality 5. Length of the record.
- 2. TITLE INFORMATION Displays information about the recording, including the date and time that the recording was made, the total length of the recording and the record quality.

 NEXT INDICATOR - The ARROW SYMBOL appears above or below the 3 titles, indicating that a previous page of titles exists

# Types of Recordings

There are two recording methods you can use: LIVE RECORDING - You can start a live recording by simply pressing the REC button while viewing video from an input source, such as the TV tuner or AV inputs. A live recording will end automatically if the disc is full.

TIMER RECORDING - You can also schedule a recording to automatically begin at a particular date and time by using the DVD recorder's built-in TIMER function. Recording can be scheduled to record once a week or daily.

# Making a Live Recording

# Selecting the Input Source

After a DVD±RW or DVD±R disc is inserted in the DVD recorder, you must select the input source that will be recorded. You may choose from the following input sources: TUNER - The DVD recorder's built-in TV tuner allows you

**TUNER** - The DVD recorder's built-in TV tuner allows you to record your favorite TV programs.

**FRONT CVBS** - Composite video input located on the front. **FRONT S-Video** -S-Video input located on the front.

DV IN- Digital video input.

**REAR CVBS**-The Composite video input located at the back of the unit .Used for any video device with composite video output

# Record from USB to optical disc- Enter the USB

Playback state, press REC button to archive mode. In this mode, press ADD/CLEAR button to select the files you desire to copy to DVD in the same file list. Then press REC to start archiving. The archiving will take place in a unique directory created by the product.

Note: You may only archive to a blank DVD, or a DVD that was previously used only for archiving from USB. You may not archive to a DVD that has already been used for video recording.





# Recording setup

- 1
- After selecting the input source for recording, press the REC. MODE button to choose recording quality.
- 2
- Press the REC key to start recording.





# **Recording Video**

In live recording mode, you may record with no specific end point, using the REC button.



- To begin recording, press the REC button. This will begin recording without a specific end time. Alternatively, the end time will be dependent on the amount of disc space available, as well as the record mode (quality) setting. An indicator will appear on the screen letting you know that the recording has begun. The DVD recorders front panel display will show "REC"indicator, followed by the elapsed time of the recording.
- You may pause the DVD recorder during a live recording. Simply press PAUSE and the recording will stop temporarily. Press REC again to resume recording.
- To end recording, press STOP. Keep in mind that the recording will end automatically if the disc runs out of space. There will be a STOP notification while the recorder updates the discs table of contents.
- To return to the title screen, press TITLE. You will see a thumbnail image of your last recording, with details of the recording, including the date and time the recording was made, along with the length and recording mode.

# DVD±R/DVD-RW discs must be finalized

Remember, your recording is not complete on a DVD±R/DVD-RW disc until the disc is finalized. Until then, it can be recorded to, played back and edited on the DVD recorder, but it will not be compatible with any other DVD player, Finalization makes the disc compatible for playback on standard DVD players. Once a disc is finalized, no more recordings can be added. For more on finalization, see EDIT DISC(Page 35).

# Title limit

A DVD±R/RW disc may contain up to 48 titles. Attempting to add additional title after reaching this limit will result in an error.

# Timer Recordings

You can use the timer function to schedule recording to begin and end at specific time. Timer recordings are designed for unattended operation, and the unit can work in standby mode. During a timer recording, the recorder may not be used for any other operations.

- 1 First, ensure the clock is set correctly.
- Press TIMER, the record schedule will pop up.



### NOTE:

If you want to delete a schedule, highlight it and press ADD/CLEAR.

3 Use UP/DOWN to select the desired schedule, and press SELECT to access the item editor. Use the direction keys to highlight and press SELECT to adjust certain settings.

# **SOURCE:**

Select video source for timer recordings. Options: TUNER (Ensure channels have been scanned TV first) FRONT CVBS, FRONT S-VIDEO and REAR CVBS



# **QUALITY:**

Select recording quality.



# **MODE:**

Select frequency for timer recording: Daily, Weekly, or Once. Press SELECT to edit mode.



# DATE:

Select date for timer recording, Press SELECT to edit date and use number keys to change.



### **START:**

Press SELECT to edit start time, use number keys to enter.





# END:

Press SELECT to edit end time, use number keys to enter.





- 4 Select OK to save your settings
- Three minutes before the recording is scheduled, a prompt will appear to confirm or cancel recording. If there is no operation either way, the unit will record as scheduled automatically.

# **NOTE:**

In standby mode, your recorder will wake up one minute before schedule.

# **FINALIZATION**

### **DISC FINALIZATION**

### When do discs need to be finalized?

DVD±R/DVD-RW discs recorded with your DVD recorder will play on your unit or your computer DVD-ROM drive with or without disc finalization. However, if you want to view your DVD on a standard DVD player then you must to finalize the disc to make the disc compatible.

After you have finished recording to the disc and wish to finalize, follow the steps below.

1

Press the TITLE key on the remote control. With the first thumbnail selected, hit the UP key on your remote control. This will bring you to the DISC INFORMATION SCREEN.





Notice the Yellow Arrow ▶on the screen. Pressing RIGHT on your remote control will take you to the disc finalization screen.



Using your remote control, choose FINALIZE DISC with the arrow keys and hit the SELECT button.





4 You will come across the FINALIZE DISC DIALOGUE BOX which reminds you that no new content can be recorded on the disc once finalized. Choose YES to continue the finalization process.





Wait for the finalization process to complete. Do not power off the unit or remove the disc until the process is complete.



Once the Finalization process is complete, you will be able to play your DVD disc on almost any DVD player. Some points to remember are:

- 1. You cannot make any new recordings on a finalized disc.
- 2. The play Disc/Rename Disc/Finalise Disc/Record New Title menu options will only appear on un-finalized discs.
- 3. It is not necessary to finalize discs if you will be using them with the DVD Recorder or your computer DVD-ROM.
- 4. By their nature, you cannot finalize DVD+RW discs.

# General

Options under the General menu are: Screen saver, Progressive/Interlace, Video output format and Restore factory settings.

# **SCREEN SAVER**

Default setting: ON

You can enable the built-in SCREEN SAVER by selecting ON, the Screen Saver will start if the unit remains paused for about 5 minutes. This will help protect your TV from possible screen 'burn in' that can occur on certain tv types when a still image is displayed for too long.





# PROGRESSIVE/INTERLACE

Default setting: INTERLACE

Progressive scan mode needs a compatible tv that can handle progressive outputs. (see installation section)





### VIDEO OUTPUT FORMAT

Default setting: PAL

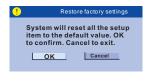
Your DVD recorder will work with TVs using the NTSC and PAL standards. NTSC is the standard TV system used in the USA, Canada, Japan and many other countries. The PAL system is used in Australia, Europe, Africa and the Middle East, among other places. Refer to your TV's documentation to make sure which model you have.



# RESTORE FACTORY SETTINGS

Use this option to RESET the unit to FACTORY DEFAULTS. All settings will be reset to original shipping condition, excluding DATE/TIME and the channel list.





# Playback

The playback menu includes TV aspect ratio, rating level, digital audio output, closed captions and analog audio output.

### TV ASPECT RATIO

Default setting: **LETTER BOX**Please set according to your TV screen.









You can setup your DVD recorder to work with normal and wide screen televisions. If you are using a widescreen TV, set the aspect ratio to 16:9. When used with a normal TV (4:3 aspect ratio), the 4:3 Pan Scan setting results in the typical fullscreen display, where a movie is clipped on the sides to fit into the TV screen. The 4:3 LETTER BOX setting will present the movie in wide screen format with black bars at the top and bottom of the screen. Note that Letter box mode will make no difference if the original format of the film is 4:3. DVDs are generally recorded in either Pan Scan or Letter Box and do not allow switching between the two. So, viewing a 4:3 DVD on a Widescreen TV will result in black bars on the left and right of the screen.

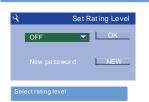
### RATING LEVEL

Default setting :OFF

You must set a PASSWORD to use the rating level options. When you first attempt to use the rating control, you are prompted to create a NEW PASSWORD. Choose any 5 digit number for your password and press SELECT. Enter the password again to confirm. After your password is set up, use the PASSWORD menu option to change your existing password. If you have forgotten your password, you may use the MASTER PASSWORD of 3308 in place of the old password.











# NOTE ON PARENTAL SECURITY

Remember to keep in mind that since the MASTER PASSWORD is listed above; your recorder may not be secure if this manual is accessible by your children.

# **CHOOSE RATING**

Default setting: OFF

The rating level allows you to limit the use of your DVD recorder to only those DVD discs that do not exceed the rating you specify. Choices include Kid Safe, G, PG, PG13, PGR, R, NC17, ADULT, and OFF(All discs play). When the parental level is set, DVD discs that support parental control will play only after entering the correct password.

### **SET PASSWORD**

To change the password, SELECT  $\,$  3308 , then SELECT the new password.

# **DIGITAL AUDIO OUTPUT**

Default setting: RAW

Select audio output format according to your amplifier. Most modern digital amplifiers will support both formats.



# **CLOSED CAPTIONS**

Default setting: **OFF** 

Adjust to set subtitles to be displayed by default. Note that subtitles can be turned on/off at any time using the subtitle button on the remote.



# ANALOG AUDIO OUTPUT

Default setting: 2CH

For connection to a television or stereo amplifier, set to 2Ch, if you wish to connect via discrete analogue cables to a non-digital multi channel amplifier, use the 5.1ch mode.



# RECORD

The record menu includs Auto chapter marker, Default source, Default quality.

### AUTO CHAPTER MARKER

Default setting: ON

You can set the recorder to automatically add a "chapter marker" every 5 minutes during your recordings. During playback, this will allow you to skip forward or back in 5 minutes intervals by using the **NEXT/PREV** keys on the remote control. These chapter markers are compatible with most standard DVD player as well.



Press SETUP to access the setup menu. Move to RECORD icon.



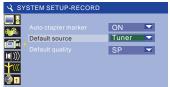
2

Press RIGHT to highlight the icon then press SELECT. And use UP/DOWN to select the ON/OFF.



# **DEFAULT SOURCE**

Default setting: TUNER





Select TV channel as source.

# **DEFAULT QUALITY**

Default setting: SP

The Record quality determines the quality of your recordings as well as the maximum amount of video you can record on a disc. The higher the quality is, the less video recording time can be recorded.

1

Press SETUP to access the setup menu. Press UP/DOWN to select the RECORD icon.



2

Press RIGHT to highlight the icon ,then press SELECT and UP/DOWN to select the record quality.



HQ: High quality: about 60 minutes recording SP: Standard play quality: about 120 minutes EP: Extended play quality: about 240 minutes

SLP: Super long play: About 360minutes

Choose your mode, then press SELECT to confirm.

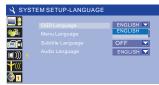
# Language

The language menu includes OSD language, Menu language, Subtitle language and Audio language options.

# **OSD LANGUAGE**

Default setting: ENGLISH





When playing a DVD, or Music CD, you can display the current title, chapter/track and elapsed playback time on-screen with the OSD.

# MENU LANGUAGE

Default setting: ENGLISH

Adjust the language dislplayed in all menus.





# SUBTITLE LANGUAGE

Default setting: OFF

Adjust the default language of displayed subtitles.





### AUDIO LANGUAGE

Default setting: ENGLISH

Adjust the default audio language.





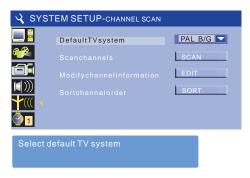
# Channel scan

The channel scan menu includes **Default TV system**, **Scan channel**, **Modify channel information** and **Sort channel order**.

# **DEFAULT TV SYSTEM**

Default setting: PAL B/G

Select the appropriate TV system for your location. (Select PAL B/G for Australia)



# **SCAN CHANNELS**

Begins a scan for available channels. once completed, found channels will be available under the TV Source for watching/recording.



Total found 0 channel, Press STOP to stop scanning.

### **MODIFY CHANNEL INFORMATION:**

This option allows you to edit single channels, by fine tuning or by skipping them all together in the channel list



# **Channel Edit**

Press number keys or 0~9 to change existing channel.



Select the Frequency option then use LEFT/RIGHT to manually scan for channels. Press Stop when finished.



3 Select the appropriate TV mode for your location



Select skip to remove this channel from the channel list. This is useful for removing empty channels so you can cycle through live channels only, using CH+/CH-



Use Fine Tune to get a more accurate fix on a channel, use LEFT/RIGHT to adjust the frequency up/down.



6 Exit channel edit.



# **SORT CHANNEL ORDER**

You may edit the channel order to place channels at the program number you desire eg channel 7 - PR7.



Use UP/DOWN to choose channel to move, the press SELECT.



Use the UP/DOWN keys to move the channel to the position which you want, the press SELECT to complete the operation.



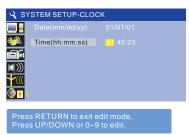
# Clock

Before you begin recording, ensure the time and date are both correct. The time and date are not only used to schedule recordings, but also to label live recordings. Setting the time and date correctly is important, as timer recordings depend on an accurate setting. The time format used is 24Hr.

- Press SETUP to access the setup menu.
- Use RIGHT/LEFT to highlight the clock icon .
- Use up/down to highlight Date and Time.
- With date (mm/dd/yy) highlighted, Press UP/DOWN or use the number keys to enter the date.



With time (hh:mm:ss) highlighted, Press UP/DOWN or use the number keys to enter the time.



# **DISPLAY**

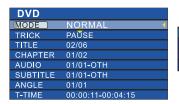
# ON SCREEN DISPLAY(OSD)

The OSD is a useful tool, easily accessing information and options while viewing movies. Press OSD to call the menu while viewing a disc.

DVD	
MODE	NORMAL
TRICK	PAUSE
TITLE	02/06
CHAPTER	01/02
AUDIO	01/01-OTH
SUBTITLE	01/01-OTH
ANGLE	01/01
T-TIME	00:00:11-00:04:15

### 1. MODE

The (play) MODE options include Normal play, A-B Repeat, Chapter Repeat, Title Repeat. Program and Random. (See Playback section for more information)

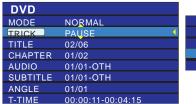


NORMAL A-B Repeat Chapter repeat Title-repeat

### 2. TRICK

The TRICK, or shuttle, menu includes Play, Stop, Prestop, Pause, Step, Fast forward\*2, Fast forward\*4, Fast forward\*16, Fast forward\*32, Fast backward\*2, Fast backward\*4, Fast backward\*16, Fast backward\*32,

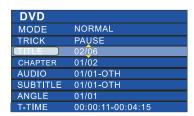
Slow forward1/2, Slow forward1/4, Slow forward1/8, Slow forward1/16. (see playback section for more information).





# 3.TITLE

Change title quickly by using number keys on remote to select desired title.



### 4.CHAPTER

Change chapter quickly by using number keys on remote to select desired chapter.

DVD	
MODE	NORMAL
TRICK	PAUSE
TITLE	02 <u>/</u> 06
(CHAPTER)	01/02
AUDIO	01 <del>7</del> 01-OTH
SUBTITLE	01/01-OTH
ANGLE	01/01
T-TIME	00:00:11-00:04:15

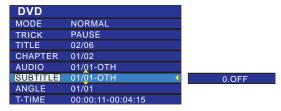
### 5.AUDIO

Select your desired audio setting, if available.



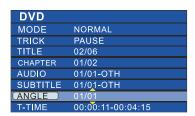
### 6.SUBTITLE

Select to choose an available subtitle by using number keys



### 7.ANGLE

Select your desired camera angle, if available.



### 8.T-TIME

Goto the point you want to playback from by inputting the time using the number keys on the remote.

DVD	
MODE	NORMAL
TRICK	PAUSE
TITLE	02/06
CHAPTER	01/02
AUDIO	01/01-OTH
SUBTITLE	01/01-OTH
ANGLE	01/01
(T-TIME	00:00:11-00:04:15

CHAPTER TITLE

# **EDIT**

# Edit a title of a DVD+RW

1

Insert a recorded DVD±RW disc to bring up the disc title menu. Highlight the title which you want to edit, then press RIGHT. Select Title Edit to enter EDIT MODE.



Press UP/DOWN to highlight options and use SELECT to enter.



# TITLE:

Select the title you desire to edit



# **CHAPTER:**

Skip to a chapter



# PLAY:

Shuttle/playback control



# **CHAPTER MARKER:**

Edit/insert/delete chapter marker



# **HIDE CHAPTER:**

Mark current chapter invisible during playback. Useful for removing ads.



# **INDEX PICTURE:**

Snapshot current screen image as title index picture



# **SPLIT TITLE:**

Divide current title into 2, from current point



# T-ELAPSED:

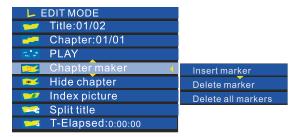
Displays elapsed time of title.



Press STOP to exit the menu

# Chapter Marker / Edit

Highlight chapter marker and press select to view marker edit options.



insert marker: a new chapter marker will be set for the current point in playback.

Delete marker: the current marker will be deleted. Delete all marker:, all chapter markers for the current title will be deleted.

# **EDIT**

# Rename title

### RENAME TITLE

Using this feature, you may change the title name. This is useful as live recordings are only titled with date/time information.

- 1.Insert a recorded DVD±RW
- 2.Use UP/DOWN key to select the title you want to edit



 Press the RIGHT key, the edit bar will appear. Press UP/DOWN to highlight Rename Title and press SELECT.



4.Use the direction keys (UP/DOWN/RIGHT/LEFT) to highlight the character which you want to input, and press SELECT to enter it. When finished, Select OK to save the title name.

### Note:

The maximum title length is up to 9 characters.



# DISC EDIT MENU (DVD±RW)

1 Insert a recorded DVD±RW

Press RIGHT to access the edit menu.

# 3

Press SELECT to enter option



### **PLAY**

Play disc

### **RENAME DISC**

Press SELECT to rename the disc (see Rename Title)

### **ERASE DISC**

Erase DVD±RW, ready for re-recording.

### **RECORD A NEW TITLE**

Record new title.

### **OVERWRITE DISC**

Begin recording from the start of the disc, overwriting any previous recordings.

### **LOCK DISC**

Lock DVD±RW

Locking the disc stops you from overwriting or erasing discs you wish to keep. Discs may be unlocked by selecting Unlock.

# DISC EDIT (DVD±R)



### PLAY

Play the disc.

### RENAME DISC

Rename the disc.

# RECORD A NEW TITLE

Record new title.

# FINALIZE DISC

Remember, your recording is not complete on a DVD±R/-RW until the disc is finalized. Finalization makes the disc compatible for playback on standard DVD players. Once a disc is finalized, no more recordings can be added.

# TROUBLE SHOOTING

# **Common Problems & Solutions**

# Playback

### The DVD Recorder Does Not Power On

- The AC power cord may be loose or not plugged in.
   Make sure the power cord is secure in the AC socket and the connector on the back of the recorder.
- The unit may be in Standby Mode. Turn the recorder on with the remote control Standby button, then wait for a few seconds.

# A Specific Disc Does Not Play

- The disc may be dirty. Try cleaning the disc.
- Make sure the disc is not in upside-down
- The REGION CODE of the disc may not match that of the recorder. In this case, the disc cannot be used. This unit is a region 4 player.

### The Remote Control Does Not Function

- Make sure you're aiming the remote control directly at the recorder remote control sensor, located on the front panel.
- Make sure there are no obstacles between the remote control and the recorder.
- The batteries may be drained. Try changing the batteries in the remote control.
- You could be using the remote control too far away.
   Try within 4 meters from the recorder.

### There is No Picture on the TV Screen

- Make sure the connections from the recorder to the TV are secure.
- Verify that the TV's channel is set to match the video input you are using. Refer to the TV's documentation.
- On most TVs the "AUX In", "Video In" or "A/V In" channel should match the video input connector.
- If you're using the S-Video connector, your TV may have a seperate input channel for this type.
- When inputting AV or S-video, there is sound but no picture, Please ensure there is no PSCAN compatibility issues.

### The Picture Appears Stretched or Squeezed

- The video aspect ratio may be set wrong for your television type.
- Enter the SETUP MENU and select the VIDEO setup MENU. Try changing the TV display setting to normal/PS (4:3 Pan & Scan) if you are using a standard TV, or Wide TV(16:9 Wide) if your TV is a Wide-Screen type.

# The Disc Doesn't Eject

• If the recorder is in Standby Mode (glowing red light to the left of the disc tray), the disc will not eject.

Turn the recorder on with the remote control and then eject the disc.

### Distorted Picture when Connected to a VCR

• This DVD recorder is built with Macrovision copy- protection. This will distort the signal when it is used with VCRs. Connect the recorder directly to the TV.

### About Divx

Some discs with the extension MPEG4 are actually in Real Video or other proprietary formats, eg, rm/ ra/ ram/ rmm/ WmV/ Lasf, ect, and are incompatible with the international standard MPEG4. International standard types include: SMI, SRT, SSA, SUB, TXT. The subtitle file and the MEPG4 file must be saved under the same file.

# Recording

# **Recording Will Not Start**

- The video input source may be protected with Macrovision Copy or CGMS Protection.
- The disc may already contain recordings of a different TV System type - PAL or NTSC. If the disc already contains a PAL recording, you cannot record from an NTSC source, and vice versa.
- The maximum number of titles 48 may have been reached.
- If the disc is a DVD±R, it may already be FINALIZED
- The disc is not a DVD±R/RW disc

### The Disc Cannot be Erased

- The disc is not a DVD $\pm$ RW disc.
- The disc may be dirty. Try cleaning the disc.

### Recordings Do Not Play Other DVD Players

- If the disc is DVD±R/DVD-RW, make sure it has been FINALIZED.
- The DVD player may not support DVD±R/RW

# Timer Recording Does Not Start.

- The time/date is invalid or conflicts with another schedule.
- The time/date settings of the recorder are incorrect. Set the time/date in SETUP menu.
- The specified video input source is unavailable.
- The disc is out of space.

# NOTE:

- 1. Switch the unit to standby before turning off.
- 2. After turning off the unit, wait at least 30 seconds before turning back on.
- 3.Playback is not ensured if used with poor quality DVD±RW discs. See recommended media table.
- 4.If the unit is kept in below zero (celsius) temperatures for more than 30minutes, leave it in a warmer environment (over 15 deg C) for an hour before you plug in. This will help remove condensation.

# **SPECIFICATIONS**

DIS	SC TYPES SUPPORTED (
	DVD±RWPlayback
•	DVD±R
-	
•	DVD-Video
•	SVCD Playback
	CD-Audio Playback
	CD-R/RW
•	MP3Playback
•	JPEG. Playback
•	JI EG
-	Rodak i ictuic CD
	MPEG4 Playback
	I
RF	COPDING
	Media DVD±R, DVD±RW
	Diameter
•	Capacity
	Recording Time Approximately 6 Hours (SLP Mode)
	TV Systems
•	Digital Compression MPEG 2 MPEG 1
•	Recording Types Live, Timer
•	wax Simultaneous Timer Recordings
•	Recording Features
	Pause Record, Auto-Insert Chapter, Index Screen
	Navigator, Multi Record Modes
•	Editing Features
	Erase Disc, Show Chapter, Edit Title Name
	Erase Disc, Show Chapter, East Title Name
PL • •	AYBACK MP3 & JPG Navigator Fast Forward / Reverse to 32X Slow Motion Playback Repeat Playback (Chapter/Title & A-B) Zoom in or out to 12%,25%,50%,100%,200%,400% when viewing JPG images. And to 150%,200% when playing movie.
VII	DEO PERFORMANCE
•	Resolution 720x480 NTSC, 720x576 PAL in HQ Mode
-	
•	DA Converter
	AD Converter
•	Video Outputs Composite, S-Video, Component
	Scanning Progressive Scan, Interlaced scan
•	Laser
	Euser
ΑU	DIO PERFORMANCE
	DA Converter
•	AD Converter
•	DVD Linear Sound
•	
	48 kHz Sampling
	96 kHz Sampling
•	Audio CD 4Hz to 20kHz
•	Signal to Noise Ratio
•	Audio Dynamic Range
	,

# **OUTPUT CONNECTIONS**

	Component Video Out
	Y
	Pb/Pr 0.7 ÷0.14Vp-p (75 Ohm)
•	S-Video Out Mini DIN 4-Pin
	$(Y=1.0 \div 0.2 \text{ Vp-p C}=0.3 \div 0.06 \text{ Vp-p } 75 \text{ Ohm})$
•	Composite Video Out
•	Coaxial Digital Out0.5V+0.1V/-0.2V
•	Optical Digital Out Standard Optical Connector
	Analog Audio Out 2.0+0.2/2.0-1.0 VRMS (47K Ohm)

# INPUT CONNECTIONS S-Video In Mini DIN 4-Pin (75 Ohm)

	S-Video In	Mını DIN 4-Pın (75 Ohm)
•	Composite Video In	1 ÷0.2Vp-p (75 Ohm)
•	Stereo Audio In	1.6VRMS (47K Ohm)

<b>P</b>	IYSICAL
	Operating Conditions
	Power Supply
	Power Consumption
	Dimensions55mm 430mm 250mm(H W L)
	Weight

# **ATTACHMENT**

# Supported Media (DVD±R)

Recommend	ed Media	Speed	Manufacturer ID	Media ID
DVD-R	MITSUBISHI	4x	MCC	
	SONY	8x	SONY08D1	/
	TDK	16x	TTH02	/
	MITSUBISHI	4x	RICOHJPN	MCC
DVD-	-R FUJIFILM	8x	YUDEN000	T02
	TDK	16x	TDK	003
NOT	Media	Speed	Manufacturer ID	Media ID

NOT Recommend		Media	Speed	Manufacturer ID	Media ID
	DVD-R	PRINCO	4x	PRINCO	
		FUSION	8x	YUDEN000	
	DVD+D	REX	4x	BEALLPO	001
DVD+R	SKC	8x	BEALL000	P40	

# Supported Media (DVD±RW)

Recommended		Media	Speed	Manufacturer ID	Media ID
	DVD-RW	TDK	2x	TDK502SAKUM3	/
	DVD-KW	MITSUBISHI	4x	MKM	A02
	DVD+RW	MELODY	2.4x	MCC	A01
		CYBERSTORE	4x	INFODISC	/
NO T		Media	Speed	Manufacturer ID	Media ID

	NO T Recommended	Media	Speed	Manufacturer ID	Media ID
	DVD-RW	SKC	2.4x	OPTODISC	
	DVD-RW	RISHENG	4x	OPTODISC	
	DVD+RW	IMATION	4x	RICOHJPN	W11
DVD+RW	RISHENG	4x	OPTODISC	Op4	